

Title (en)

AQUEOUS SOLUTIONS OR DISPERSIONS FOR SELF-CROSS-LINKABLE BINDERS, PROCESS FOR THEIR MANUFACTURE AND THEIR USE

Publication

EP 0372295 B1 19930519 (DE)

Application

EP 89121582 A 19891122

Priority

DE 3841021 A 19881206

Abstract (en)

[origin: CA2004513A1] AQUEOUS SOLUTIONS OR DISPERSIONS OF SELF-CROSSLINKING BINDERS, A PROCESS FOR THEIR PRODUCTION AND THEIR USE Aqueous solutions or dispersions of self-crosslinking binders based on ionically modified polycarboxylic acid polyanhydrides, wherein the binders dissolved or dispersed in water have a) a total content of lateral carboxylic acid ester, carboxylic acid thioester or carboxylic acid amide groups of up to 500 milliequivalents per 100 grams solids, b) a content of chemically incorporated carboxylate groups of from 10 to 500 milliequivalents per 100 grams solids and c) a content of ammonium groups of from 10 to 500 milliequivalents per 100 grams solids, are prepared by a process which comprises a first reaction step wherein polyanhydrides A) containing intramolecular carboxylic anhydride groups are at least partly reacted, with or without inert solvents, with blocked amines B) which are activatable by water and which, in addition to blocked amino groups, contain at least one anhydride-reactive hydroxy, mercapto or amino group, in a molar ratio of anhydride groups to anhydridereactive groups of 10:1 to 0.8:1 in an ester-, thioester- or amideforming reaction accompanied by ring opening, and LeA 26 525 a second reaction step wherein the reaction mixture obtained from the first step is diluted with water and stirred at room temperature or higher until a stable aqueous solution or dispersion is formed. LeA 26 525

IPC 1-7

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CPC (source: EP KR US)

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